

VOL. XI-XVII.

1927-1933

Entered as second-class matter January 12, 1924, at the post office at Río Piedras, Porto Rico, under the Act of June 8, 1900.

Acceptance for mailing at a special rate of postage provided for in section 1103, October 3, 1917, authorized January 12, 1924.

THE JOURNAL
OF THE
DEPARTMENT OF AGRICULTURE
OF
PORTO RICO

Melville T. Cook,
Editor



Author's Index and Contents

PUBLISHED BY
THE AGRICULTURAL EXPERIMENT STATION
Río Piedras, P. R.

NOTICE

By Act of the Legislature of the Insular Government of Puerto Rico, the Insular Experiment Station has been transferred from the Department of Agriculture and Commerce of Puerto Rico to the University of Puerto Rico and the name of the Station changed to Agricultural Experiment Station of the College of Agriculture and Mechanic Arts of the University of Puerto Rico.

In accordance with this change;

The present JOURNAL OF AGRICULTURE OF THE UNIVERSITY OF PUERTO RICO, starts with Volume XVIII, January 1934, and is a continuation of the JOURNAL OF THE DEPARTMENT OF AGRICULTURE OF PUERTO RICO, which suspended publication with the completion of Volume XVII, 1933.

Very truly,

MELVILLE T. COOK,

Editor.

THE JOURNAL OF THE DEPARTMENT OF AGRICULTURE
OF PUERTO RICO

CONTENTS, PAGES, TITLES AND DATES

Vols. XI to XVII

1927-1933

January-October 1927—Volume XI, Nos. 1-4.	Page
Foreword; Carlos E. Chardon	7
The varietal revolution in Porto Rico; Carlos E. Chardon	9
General remarks; F. S. Earle	46
A monograph of sugar-cane varieties; Arthur H. Rosenfeld	82
January-April 1928—Volume XII, Nos. 1-2.	
Ecological survey of the flora of Porto Rico; Melville T. Cook & Henry Allan Gleason	5
July 1928—Volume XII, No. 3.	
The gummosis of sugar cane; Melville T. Cook	143
October 1928—Volume XII, No. 4.	
The black-shank of tobacco in Porto Rico; J. A. B. Nolla	185
January 1929—Volume XIII, No. 1.	
New or interesting tropical American <i>Dothideales</i> II; Carlos E. Chardon	5
Life history of <i>Ligniera vascularum</i> (Matz) Cook; Melville T. Cook---	19
April 1929—Volume XIII, No. 2.	
The eggplant blight and fruit rot in Porto Rico; J. A. B. Nolla	35
<i>Acerotalagnmus aphidum</i> Oud. and aphid control; J. A. B. Nolla	59
The gummosis of sugar cane (Second paper); Melville T. Cook	73
July 1929—Volume XIII, No. 3.	
Notes on Porto Rican Homoptera; Herbert Osborn	81
October 1929—Volume XIII, No. 4.	
The middle American species of the genus <i>Inga</i> ; Henry Pittier	117
January 1930—Volume XIV, No. 1.	
Phytopathological survey of Santo Domingo; R. Ciferri	5
April 1930—Volume XIV, No. 2.	
A new mechanical method for artificially transmitting sugar-cane mosaic; Francisco Seín Jr.	49
The effect of some mosaic diseases on cell structure and on the chloro- plasts; Melville T. Cook	69
July 1930—Volume XIV, No. 3.	
Bird record from the Virgin Islands; Stuart T. Danforth	107
Birds of St. Croix; Harry A. Beatty	135

	Page
A new leaf-miner of cotton in Porto Rico (<i>Nepticula gossypii</i> new species); W. T. M. Forbes & M. D. Leonard.....	151
A little-known root weevil of cassava (<i>Coelosternus sulcatulus</i> Boheman); Mortimer D. Leonard.....	165
The sugar-cane root caterpillar and other root pests in Puerto Rico (<i>Perforadix sacchari</i> , new genus and species); Francisco Sein Jr.	167
 October 1930—Volume XIV, No. 4.	
Mycological explorations of Colombia; Carlos E. Chardon & Rafael A. Toro.....	195
 January 1931—Volume XV, No. 1.	
<i>Cercosporae</i> of Puerto Rico; by Rafael A. Toro.....	5
Notes on birds observed at Guánica Lagoon and its vicinity; Harry A. Beatty.....	19
Puerto Rico ornithological records; Stuart T. Danforth.....	33
 April 1931—Volume XV, No. 2.	
Nitrogen transformation in the decomposition of sugar-cane trash, with special bearing upon Puerto Rico soil problems; Juan Amédée Bonnet	113
A bibliography of the banana root-weevil; Mortimer D. Leonard.....	147
The effect of mosaic on cell structure and chloroplasts; Melville T. Cook	177
The leaf spot of tobacco; an after symptom of mosaic; Melville T. Cook	183
Some undescribed symptoms of mosaic in Porto Rican tobacco; Melville T. Cook.....	189
New virus diseases of plants in Porto Rico; Melville T. Cook.....	193
 July 1931—Volume XV, No. 3.	
The <i>Sphaerodactyls</i> of Porto Rico, Culebra and Mona Islands; Chapman Grant.....	199
A revised list of the herpetological fauna of Culebra Island; Chapman Grant.....	215
Reestablishment of a <i>Scincid</i> lost since 1837; Chapman Grant.....	217
A new species and two sub-species of the genus <i>Anolis</i> ; Chapman Grant	219
Studies on cacao; R. Ciferri.....	223
Studies on the bacterial wilt of the <i>Solanaceae</i> in Porto Rico; J. A. B. Nolla.....	287
Observations on the bean lace-bug in Porto Rico; Mortimer D. Leonard & Alfred S. Mills.....	309
The Haitian coffee tree cricket; Charles H. Arndt & Herbert L. Dozier..	325
 October 1931—Volume XV, No. 4.	
Supplementary report on the <i>Heterocera</i> or moths of Porto Rico; Wm. T. M. Forbes.....	339
The infestation of young okra pods by pink bollworm in Porto Rico; George N. Wolcott.....	395
A new species of <i>Aristelliger</i> from Navassa; Chapman Grant.....	399
 January 1932—Volume XVI, No. 1.	
Influence of smoke and ethylene on the fruiting of the pineapple (<i>Ananas sativus</i> Schult); Antonio G. Rodríguez.....	5
Inheritance of color in the eggplant (<i>Solanum Melongena</i> L.); J. A. B. Nolla.....	19

	Page
A new <i>Sphaerodactyl</i> from Porto Rico; Chapman Grant.....	31
Chart for determining the <i>Sphaerodactyl</i> of the Porto Rico region; Chapman Grant.....	33
The herpetology of Vieques Island; Chapman Grant.....	37
<i>Bufo lemur</i> , a rare Porto Rican toad; Chapman Grant.....	41
<i>Sphaerodactylus grandisquamis</i> a valid species; Chapman Grant.....	43
The herpetology of Caja de Muertos and Cardona Key, Porto Rico; Chapman Grant & Cornelius Roosevelt.....	47
The <i>Hemidactyls</i> of the Porto Rico region; Chapman Grant.....	51
The initiation of an insect pest survey in Porto Rico; M. D. Leonard....	59
The pink bollworm of cotton in Porto Rico; M. D. Leonard.....	65
Additional references to the bean lace bug; M. D. Leonard.....	75

April 1932—Volume XVI, No. 2.

Description of a new <i>Myrmariid</i> egg parasites from Haiti and Puerto Rico; Herbert Dozier.....	81
Notes on the Genus <i>Aneristus</i> Howard with description of new species (Hymenoptera; Chalcidoidea); Herbert Dozier.....	93
Two important West Indian seed-infesting wasps; Herbert Dozier.....	103
Three species of <i>Empoasca</i> leafhoppers known to affect economic plants in Haiti (including the description of two new species); Dwight M. DeLong.....	113
A new citrus cambium miner from Puerto Rico; E. P. Felt.....	117
A new neotropical genus of <i>Eupterygina</i> (Homoptera) from Puerto Rico; W. L. McAtee.....	119
Insect conditions in Puerto Rico during the Fiscal Year, July 1, 1930 thru June 30, 1931; M. D. Leonard.....	121
A new frog from Puerto Rico; Chapman Grant.....	145
The genus <i>Alsophis</i> in Puerto Rico; Chapman Grant.....	149
A redescription of <i>Amphisbaena caeca</i> with a discussion of its relation- ship to <i>A. Bakeri</i> ; Chapman Grant.....	153
The large Ameivas of the Puerto Rico region with one new species; Chapman Grant.....	157
Herpetological notes from the Puerto Rico area; Chapman Grant.....	161
New or interesting tropical American Dothideales III; Carlos E. Chardon	167
The brown rot fungus in Puerto Rico; Jaime R. Guisacfré.....	193
The damping-off of tobacco and its control in Puerto Rico; J. A. B. Nolla	203
<i>Thielaviopsis paradoxa</i> ; an important disease of sugar cane; Melville T. Cook.....	205
<i>Marasmius sacchari</i> ; a parasite on sugar cane; Melville T. Cook.....	213

July 1932—Volume XVI, No. 3.

The <i>Cydnidae</i> and <i>Pentatomidae</i> of Cuba; H. G. Barber & S. C. Bruner	231
The damping-off of tobacco and its control in Porto Rico; J. A. B. Nolla	281
A new frog from the Virgin Islands; Chapman Grant.....	325
Notes on the boas of Porto Rico and Mona; Chapman Grant.....	327
Herpetology of St. John and adjacent keys, U. S. Virgin Islands; Chap- man Grant.....	331
A genus of Gecko new to the Greater Antilles; Chapman Grant.....	335
Herpetology of Tortola; Notes on Anegada and Virgin Gorda, British Virgin Islands; Chapman Grant.....	339

October 1932—Volume XVI, No. 4.

The crane-flies of Porto Rico; Charles P. Alexander.....	Page 347
The Fusarium disease of coffee in Costa Rica; C. Picado T.....	389
The growth of herpetology in the Puerto Rico and Virgin Islands area; Chapman Grant	401
Herpetological notes; Chapman Grant	405
On the life history and systematic position of the organisms causing dry top-rot of sugar cane; W. R. Ivimey Cook.....	409
Introduction of <i>Leptodactylus fallax</i> in Puerto Rico; T. B. McClelland.....	419

January 1933—Volume XVII, No. 1.

An annotated bibliography of Puerto Rican entomology; Mortimer D. Leonard	5
--	---

April 1933—Volume XVII, No. 2.

Notes on insect conditions in Puerto Rico for the Fiscal year, July 1931 thru June 1932; Mortimer D. Leonard.....	97
The relation of anther color and the proportions of starch-filled pollen grains in the sugar cane; Thomas Bregger.....	139
Bacterial wilt of tobacco in Puerto Rico and its intertransmission to other solanaceous plants; Arturo Roque.....	145
Concerning the origin of the white quartz sands of northern Puerto Rico; James Throp and Leslie Rockwell Smith.....	157
Puerto Rico seedless orange selections; A. D. Shamel & E. D. Twight.....	171

July 1933—Volume XVII, No. 3.

<i>Anastrepha</i> (Trypetidae, Diptera) fruit flies in Puerto Rico; Francisco Sein Jr.	183
The extent to which the practice of not burning cane trash has been adopted in Puerto Rico; George N. Wolcott.....	197
A year's experience with the cottony cushion scale in Puerto Rico; George N. Wolcott & Francisco Sein Jr.....	199
Recent experiments in the control of two Puerto Rican ants; George N. Wolcott	223
The lima bean pod-borer caterpillar of Puerto Rico; George N. Wolcott	241
The larval period of <i>Diaprepes abbreviatus</i> L.; George N. Wolcott.....	257
The changed status of some insect pests in Puerto Rico; George N. Wolcott	265

October 1933—Volume XVII, No. 4.

Gum-producing organism in sugar cane; Melville T. Cook & Pablo Mo- rales Otero	286
Research on shortening time without affecting the accuracy of Dyer's modified method for determination in soils, of phosphoric acid, lime and potash soluble in citric acid solution; Juan Amédée Bonnet & Fernando A. Villamil	287
A variety of tobacco resistant to ordinary tobacco mosaic; J. A. B. Nolla & Arturo Roque	301
The pineapple disease of sugar cane in Puerto Rico; Melville T. Cook.....	305
White spot of pineapple; Melville T. Cook.....	311
Patho-anatomy of roots attacked by nematodes; Melville T. Cook.....	315

AUTHORS' INDEX

Vols. XI-XVII

1927-1933

	Vol.	No.	Page
Alexander, Charles P.	XVI	4	347
Arndt, Charles H.	XV	3	325
Barber, H. G.	XVI	3	231
Beatty, Harry A.	XIV	3	135
Beatty, Harry A.	XV	1	19
Bonnet, Juan Amédée	XV	2	113
Bonnet, Juan Amédée	XVII	4	287
Bregger, Thomas	XVII	2	139
Brunner, S. C.	XVI	3	231
Chardon, Carlos E.	XI	1-4	7
Chardon, Carlos E.	XI	1-4	9
Chardon, Carlos E.	XIII	1	5
Chardon, Carlos E.	XIV	4	195
Chardon, Carlos E.	XVI	2	167
Cook, Melville T.	XII	1-2	5
Cook, Melville T.	XII	3	143
Cook, Melville T.	XIII	1	19
Cook, Melville T.	XIII	2	73
Cook, Melville T.	XIV	2	69
Cook, Melville T.	XV	2	177
Cook, Melville T.	XV	2	183
Cook, Melville T.	XV	2	189
Cook, Melville T.	XV	2	193
Cook, Melville T.	XVI	2	205
Cook, Melville T.	XVI	2	213
Cook, Melville T.	XVII	4	286
Cook, Melville T.	XVII	4	305
Cook, Melville T.	XVII	4	311
Cook, Melville T.	XVII	4	315
Cook, W. R. Ivimey	XVI	4	409
Ciferri, R.	XIV	1	5
Ciferri, R.	XV	3	223
Danforth, Stuart T.	XIV	3	107
Danforth, Stuart T.	XV	1	33
DeLong, Dwight	XVI	2	113
Dozier, Herbert L.	XV	3	325
Dozier, Herbert L.	XVI	2	81
Dozier, Herbert L.	XVI	2	93
Dozier, Herbert L.	XVI	2	103
Earle, F. S.	XI	1-4	46

	Vol.	No.	Page
Feltd, E. P.	XVI	2	117
Forbes, Wm. T. M.	XIV	3	151
Forbes, Wm. T. M.	XV	4	339
Gleason, Henry Allan.	XII	1-2	5
Grant, Chapman.	XV	3	199
Grant, Chapman.	XV	3	215
Grant, Chapman.	XV	3	217
Grant, Chapman.	XV	3	219
Grant, Chapman.	XV	4	399
Grant, Chapman.	XVI	1	31
Grant, Chapman.	XVI	1	33
Grant, Chapman.	XVI	1	37
Grant, Chapman.	XVI	1	41
Grant, Chapman.	XVI	1	43
Grant, Chapman.	XVI	1	47
Grant, Chapman.	XVI	1	51
Grant, Chapman.	XVI	2	145
Grant, Chapman.	XVI	2	149
Grant, Chapman.	XVI	2	153
Grant, Chapman.	XVI	2	157
Grant, Chapman.	XVI	2	161
Grant, Chapman.	XVI	3	325
Grant, Chapman.	XVI	3	327
Grant, Chapman.	XVI	3	331
Grant, Chapman.	XVI	3	335
Grant, Chapman.	XVI	3	339
Grant, Chapman.	XVI	4	401
Grant, Chapman.	XVI	4	405
Guiscafré, Jaime R.	XVI	2	193
Leonard, Mortimer D.	XIV	3	151
Leónard, Mortimer D.	XIV	3	165
Leonard, Mortimer D.	XV	2	147
Leonard, Mortimer D.	XV	3	309
Leonard, Mortimer D.	XVI	1	59
Leonard, Mortimer D.	XVI	1	65
Leonard, Mortimer D.	XVI	1	75
Leónard, Mortimer D.	XVI	2	121
Léonard, Mortimer D.	XVII	1	5
Léonard, Mortimer D.	XVII	2	97
McAtee, W. L.	XVI	2	119
McClelland, B. T.	XVI	4	419
Mills, Alfred S.	XV	3	309
Mórales Otero, Pablo.	XVII	4	286
Nolla, J. A. B.	XII	4	185
Nolla, J. A. B.	XIII	2	35
Nolla, J. A. B.	XIII	2	59
Nolla, J. A. B.	XV	3	287
Nolla, J. A. B.	XVI	1	19
Nolla, J. A. B.	XVI	2	203
Nolla, J. A. B.	XVI	3	281

	Vol.	No.	Page
Nolla, J. A. B.-----	XVII	4	301
Osborn, Herbert-----	XIII	3	81
Picado T., C.-----	XVI	4	389
Pittier, Henry-----	XIII	4	117
Rodríguez, Antonio G.-----	XVI	1	5
Roosevelt, Cornelius-----	XVI	1	47
Roque, Arturo-----	XVII	2	145
Roque, Arturo-----	XVII	4	301
Rosenfelt, Arthur H.-----	XI	1-4	82
Seín Jr., Francisco-----	XIV	2	49
Seín Jr., Francisco-----	XIV	3	167
Seín Jr., Francisco-----	XVII	3	183
Seín Jr., Francisco-----	XVII	3	199
Shamel, A. D.-----	XVII	2	171
Smith, Leslie Rockwell-----	XVII	2	157
Thorp, James-----	XVII	2	157
Toro, Rafael A.-----	XIV	4	195
Toro, Rafael A.-----	XV	1	5
Twight, E. D.-----	XVII	2	171
Villamil, Fernando A.-----	XVII	4	287
Wolcott, George N.-----	XV	4	395
Wolcott, George N.-----	XVII	3	197
Wolcott, George N.-----	XVII	3	199
Wolcott, George N.-----	XVII	3	223
Wolcott, George N.-----	XVII	3	241
Wolcott, George N.-----	XVII	3	257
Wolcott, George N.-----	XVII	3	265

SAN JUAN, P. R.
BUREAU OF SUPPLIES, PRINTING AND TRANSPORTATION
1934

